

**From:** [Walls \(Young\), Suzy](#)  
**To:** [Mitchell, Tanya](#)  
**Cc:** [Persico, John](#); [Gary M. Fisher](#); [Draikiwicz, Michael](#); "[\(pete.bergeron@chevron.com\)](#)"; [Ricci, Richard F.](#); [mfaigen@issuesllc.com](#); [Gutherz, Andrew](#)  
**Subject:** RE: Rolling Knolls - FCR-09 Proposed Analyses at Existing Wells  
**Date:** Wednesday, July 08, 2015 2:35:07 PM

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Tanya,

I will make the change to the parameter list and resubmit. I don't believe there are any changes from the SAP in regards to the third round of groundwater monitoring. Only new wells are scheduled to be sampled at that time and already include the full TCL/TAL list.

Thanks,

Suzy

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**From:** Mitchell, Tanya [mailto:[Mitchell.Tanya@epa.gov](mailto:Mitchell.Tanya@epa.gov)]  
**Sent:** Wednesday, July 08, 2015 8:53 AM  
**To:** Walls (Young), Suzy  
**Cc:** Persico, John; Gary M. Fisher; Draikiwicz, Michael; '[\(pete.bergeron@chevron.com\)](#)'  
**Subject:** RE: Rolling Knolls - FCR-09 Proposed Analyses at Existing Wells  
**Confirmation of this email is requested.**

Hi Suzy,

Thank you for the clarification. There is one remaining edit for FCR-09 as follows:

**Recommended Modifications:** Monitoring wells MW-1 through MW-10 and X-1 through X-7 are selected for sampling during the second groundwater sampling event, and samples will be analyzed for full TCL/TAL, *SVOCs (SIM)*, *TAL metals (filtered) and cyanide*.

This FCR can also be modified to include the third round of sampling. This would eliminate the need for an additional FCR.

A revised FCR-09 is requested within three days of receipt of this email. Should you have any questions or concerns regarding this email, please notify me upon receipt of this email.

Regards,

Tanya

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**From:** Walls (Young), Suzy [mailto:[Suzy.Walls@arcadis-us.com](mailto:Suzy.Walls@arcadis-us.com)]  
**Sent:** Tuesday, July 07, 2015 7:10 PM  
**To:** Mitchell, Tanya  
**Cc:** Persico, John; Ricci, Richard F.; Gary M. Fisher; Draikiwicz, Michael; '[\(pete.bergeron@chevron.com\)](#)'  
**Subject:** RE: Rolling Knolls - FCR-09 Proposed Analyses at Existing Wells

Hi Tanya,

Answers below in red.

Thanks,

Suzy

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**From:** Mitchell, Tanya [mailto:[Mitchell.Tanya@epa.gov](mailto:Mitchell.Tanya@epa.gov)]  
**Sent:** Tuesday, July 07, 2015 12:29 PM  
**To:** Walls (Young), Suzy; Persico, John  
**Subject:** RE: Rolling Knolls - FCR-09 Proposed Analyses at Existing Wells

Hi Suzy,

It appears that you are out in the field this week. I have a few questions on FCR-09 as follows:

1. FCR-09 states that the GW monitoring began 6/22. Which MWs have been sampled to date.

All of the new wells, minus MW-13, have been sampled (so that would be MW-11, MW-12, and MW-14 through MW-20). These wells were sampled for full TCL/TAL as described in the SAP.

2. The Reason for Deviation makes reference to a "selection process." Can you provide specific details of the process? Was there some type of GW criteria applied? The SAP states that the existing wells will be evaluated prior to the second groundwater sampling event. We evaluated the data compared to the NJ GW criteria. However, you told the Group that MNA would not be considered if full TCL/TAL wasn't sampled. As a result, we have modified this FCR to include full TCL/TAL.
3. FCR-09 makes reference to full TAL/TCL but no mention of SVOCs (SIM) or TAL metals filtered and cyanide. Please confirm if these parameters will be analyzed as in Table 1 of the approved SAP. SVOCs (SIM) and TAL metals/cyanide (filtered) will be included for all wells.
4. Please clarify the reason for FCR-09. One section states, "This FCR identifies existing monitoring wells that will be sampled as part of the second round of Data Gaps SAP groundwater sampling, and the analytical parameters for each of these wells." and the following section states "This FCR is being submitted as a form of documentation for the analysis selection process." If the analytical parameters are the same as in the approved SAP then there is no need to document the analytical parameters. This FCR is necessary because the SAP does not require that full TCL/TAL be evaluated for all wells, new and existing. Thus, this FCR documents the list of parameters and wells that are sampled during the second phase of groundwater sampling. You and I talked about this prior to the first submission and you said that this approach was appropriate.

Your response to the aforementioned questions will aid in completing my review of FCR-09.

Thanks,

Tanya

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**From:** Walls (Young), Suzy [<mailto:Suzy.Walls@arcadis-us.com>]

**Sent:** Monday, July 06, 2015 5:04 PM

**To:** Mitchell, Tanya

**Cc:** Gary M. Fisher; Draikiwicz, Michael; ' ([pete.bergeron@chevron.com](mailto:pete.bergeron@chevron.com))'; Persico, John; Ricci, Richard F.; [mfaigen@issuesllc.com](mailto:mfaigen@issuesllc.com); Guthertz, Andrew

**Subject:** RE: Rolling Knolls - FCR-09 Proposed Analyses at Existing Wells

Tanya,

The revised FCR-09 is attached for your review. I have included both a RLSO version and a clean version.

The Group has decided to sample all existing monitoring wells (MW-1 through MW-10 and X-1 through X-7) for the full TCL/TAL parameter list. This change is reflected in the attached FCR. We have also noted that MW-13 will be replaced with pore-water sampling and we have removed it from Figure 1.

Please let me know if you have any comments or questions.

Thanks,

Suzy

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**From:** Mitchell, Tanya [<mailto:Mitchell.Tanya@epa.gov>]

**Sent:** Tuesday, June 30, 2015 3:28 PM

**To:** Walls (Young), Suzy

**Cc:** Gary M. Fisher; Draikiwicz, Michael; ' ([pete.bergeron@chevron.com](mailto:pete.bergeron@chevron.com))'; Persico, John

**Subject:** RE: Rolling Knolls - FCR-09 Proposed Analyses at Existing Wells

**Confirmation of this email is requested.**

Suzy,

I have reviewed FCR-09 and it is not approved as submitted. Please update FCR-09 to reflect that MW-13 has been changed to pore water samples. The purpose of the FCR-09 is to document the additional MW that will be sampled during the second phase. EPA's position on MW sampling parameters shall remain the same as documented in Table 1 of the approved Data Gaps SAP dated November 2014. Please revise FCR-09 and the attached Table as noted. In addition, there is some concern regarding MW-10. Please clarify if this MW will be sampled during the second phase of sampling.

Please note that all changes to the SAP/ QAPP must be approved by EPA. Thus, no sampling and/or field activities associated with FCRs should occur prior to EPA's approval of the FCR.

A revised FCR-09 is requested within three days of receipt of this email. Should you have any questions or concerns regarding this email, please notify me upon receipt of this email.

Regards,

Tanya

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**From:** Walls (Young), Suzy [<mailto:Suzy.Walls@arcadis-us.com>]

**Sent:** Wednesday, June 10, 2015 5:35 PM

**To:** Mitchell, Tanya

**Cc:** Ricci, Richard F.; Gary M. Fisher; Draikiwicz, Michael; ' ([pete.bergeron@chevron.com](mailto:pete.bergeron@chevron.com))'; [mfaigen@issuesllc.com](mailto:mfaigen@issuesllc.com); Persico, John; Guthertz, Andrew

**Subject:** Rolling Knolls - FCR-09 Proposed Analyses at Existing Wells

Tanya,

The Field Change Request for the selection of analyses at existing monitoring wells during the second round of groundwater sampling is attached. Please let me know if you have any questions or comments.

Thanks,

Suzy

**Suzy Walls** | Ecologist / Certified Project Manager | [suzy.walls@arcadis-us.com](mailto:suzy.walls@arcadis-us.com)

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